Will SEMP Research Institute's 'Smart Electronic Generator' lead to industry innovation?

Demonstration and technology disclosure of ‘Smart Electronic Generator’… Scheduled to be supplied to the Vietnamese government

Reporter Jo Gyu-hee 2018.11.22

[Prime Economy] SEMP Research Institute (CEO Woohee Choi), a small and medium-sized venture company in Korea, unveiled a new concept generator and declared its full-fledged market penetration. Although the released product is at the prototype level, it is attracting attention as it is a new technology that could revolutionize the energy industry once full-scale mass production begins.

SEMP Research Institute unveiled a new concept power production system, 'Smart Electronic Generator', and emphasized that it will be possible to produce power 300 times the amount supplied.

In general, generators produce electricity using solar power, wind power, hydropower, and nuclear power, but smart electronic generators are unique in that they generate electricity using electricity.

Therefore, it is free from restrictions that must be considered when building a generator. In addition to low construction costs and long operating times, there is no need to worry about environmental pollution.

SEMP Research Institute plans to gradually expand the market, starting with the large generator market, to facilities that require large amounts of power such as buildings, factories, passenger ships, electric vehicles, and airplanes, as well as home generators.

Despite these advantages, some are reacting as “nonsense.” This is a misunderstanding that stems from distrust of the concept of generating electricity from electricity, unlike a typical generator.

Electricity is used to operate a smart electronic generator, but the concept is not to create electricity with electricity.

Generators generally produce electricity by generating power in the surrounding magnetic field generated when an electromagnet rotates. The concept is to obtain electricity from a magnetic field, and a smart electronic generator is also within this concept in the larger framework.

However, the biggest difference from the existing method is that instead of rotating the electromagnet, it provides a rotating effect by turning the internal power of the unit (main component of the smart electronic generator) on and off.

In other words, SEMP Research Institute explains that by operating a unit with electricity, it is possible to obtain greater electricity than the input electricity through the magnetic field activity within it. Seong-kwon Yoo, head of SEMP Research Institute, emphasized, “Theoretically, it is possible to produce 300 times more power than input,” and added, “This is where our technological strength lies.”

The reason why SEMP Research Institute unusually unveiled a prototype on the 21st was to demonstrate it to Vietnamese guests.

Tran Long, representative of the southern region of the Organization for Economic Co-operation and Development (MPI) in Vietnam, who visited the SEMP Research Center headquarters on the 21st, said, “Vietnam currently needs a lot of electricity, but is highly dependent on fossil fuels,” and added, “This technology can be applied to Vietnam as soon as possible.” “I hope we can produce the insufficient amount of electricity and reduce environmental pollution,” he said.

“This visit was not to check the finished product, but to see the potential of the product,” he said. “The level of the product exceeded expectations, and it is evaluated as a success.”

SEMP Research Institute announced that it plans to supply 200 units of 10 MWH smart electronic generators to the Vietnamese government starting in 2019 when mass production of products begins.

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